

Kali Steele

Fundamentals of Space Planning- INDS 1349

Project 3- Residential

Kevin Hamby

5/14/2020

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**Concept:** Obliging Aging while Enjoying Downsizing

**Concept Statement:**

Marsha and Marty Payne need a home that is suitable for them to age-in-place. Careful considerations are made for them as they may need to adjust to life in a wheelchair in the future. The house will be designed ADA accessible, with special considerations in the kitchen and master suite to accommodate them both now and in the future. Their home will be planned to support Marsha and her love for photography through a workroom with lots of flat space to lay out photos, as well as deep flat storage for photos. Marty will not be left out- his love for gardening will be shown with lots of windows, and multiple access points to the outdoors. This downsizing will seem anything but cramped, with plenty of room for their two daughters and three grandchildren to come visit and stay comfortably.

**Universal Planning Considerations for Master Suite:**

1. The Master Suite has 4' walkways throughout.
2. Wheelchair accessibility on both sides of the bed.
3. Turn around radius of 5' and clear floor space of 48" x 30" is seen in the bedroom, closets, and bathroom areas.
4. Grab bars are planned for and notated at the shower and water closet
5. Foldable shower seat is planned for the zero-threshold shower
6. The water closet and shower area are separated and private, yet without doors, so to be easily maneuver for someone with limited accessibility.
7. Two sinks with clear space below.
8. Nonslip floor- 2" hexagon flooring throughout bathroom area.
9. Easy access into Master bedroom, while still giving privacy.
10. Same flooring in Master bedroom and closet as the rest of the house, so minimal transition pieces to slip on or roll over.

**Universal Planning Considerations for Kitchen:**

1. Kitchen has 4' walkways for easy pass through
2. Range and sink area is adjustable and can be raised up and down. Both have removable cabinets underneath. Range has knobs on the front for easy accessibility.
3. Hood vent above oven is under cabinet and ADA approved. Also has a light feature to see easily.
4. Pantry is linear, making it easily accessible for wheelchair use without having to go "into" a room.
5. Oven is wall mounted above microwave. Microwave is mounted 15" AFF, and oven above that, making it under 36" for ADA approval.
6. Dishwasher is under-cabinet mounted at 15" AFF.
7. Refrigerator has the freezer on the bottom for easy accessibility.
8. 2 entry/exit ways for kitchen, making it easy to maneuver.
9. Light colored countertops help for easy vision of the border.
10. 9" toe kick throughout kitchen in case of future wheelchair use.

## 5 Spec sheets for Kitchen Appliances:

### GDT225SGL/SSL

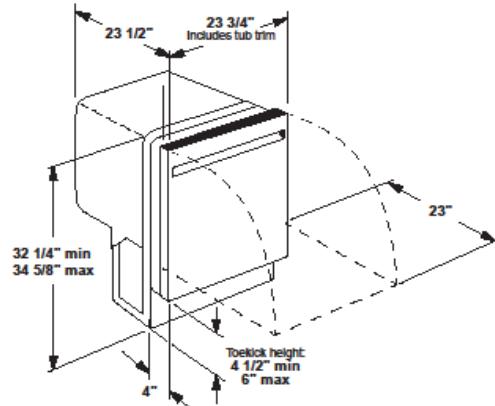
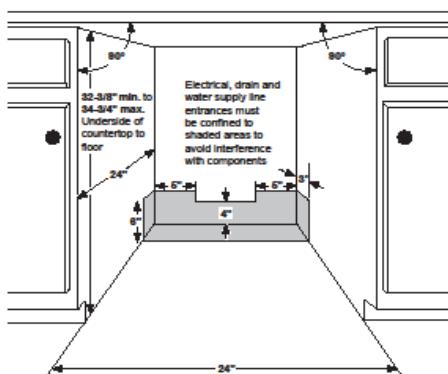
GE® Stainless Steel Interior Dishwasher with Hidden Controls

#### DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

##### ELECTRICAL RATING

Voltage AC.....120  
Hertz.....60  
Total connected load amperage.....8.9

For use on a adequately wired 120-volt, 15-amp circuit having 2-wire service with a separate ground wire. This appliance must be grounded for safe operation.



For answers to your Monogram, GE Cafe™ Series, GE Profile™ Series or GE Appliances product questions, visit our website at [geappliances.com](http://geappliances.com) or call GE Answer Center® Service, 800.626.2000.



As an ENERGY STAR® partner, GE has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

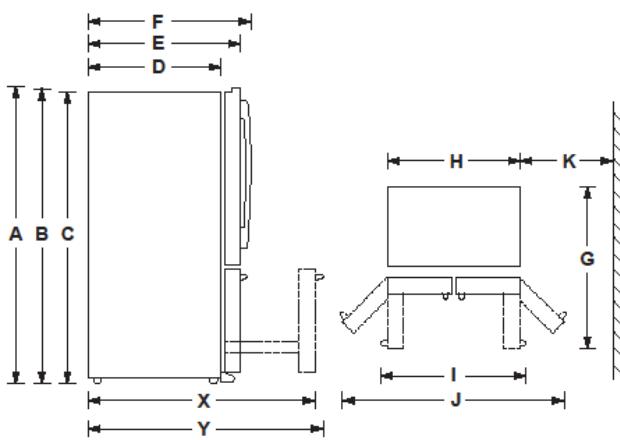
Specification Revised 2/18

### PYD22KBL/KYN

GE Profile™ Series 22.1 Cu. Ft. Counter-Depth French-Door Refrigerator with Door In Door

#### DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

Height to top of door (in.) A	70-1/2
Height to top of hinge (in.) B	69-7/8
Height to top of case (in.) C	69
Case depth without door (in.) D	24-3/8
Case depth less door handle (in.) E	29-3/4
Case depth with door handle (in.) F	31-1/4
Depth with fresh food door open 90° (in.) G	43-3/8
Width (in.) H	35-3/4
Width with door open 90° with door handle (in.) I	44-5/8
Width with doors open fully (in.) J	68
Min distance between side of case and wall, in either direction, to allow doors to open fully (in.) K	16-1/8
Depth with FZ door completely open (w/o handle) (in.) X	44-3/4
Depth with FZ door completely open (w/ handle) (in.) Y	46-1/4



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Specification Created 01/20

# PTS9000BN/SN

## GE Profile™ 30" Built-In Convection Single Wall Oven

### DIMENSIONS AND INSTALLATION INFORMATION

**NOTE:** Single wall ovens are NOT approved for stacking above or below another single wall oven.

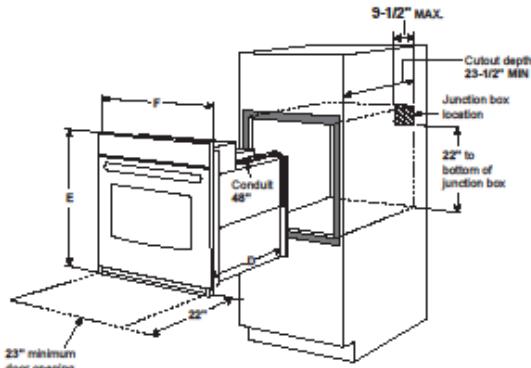
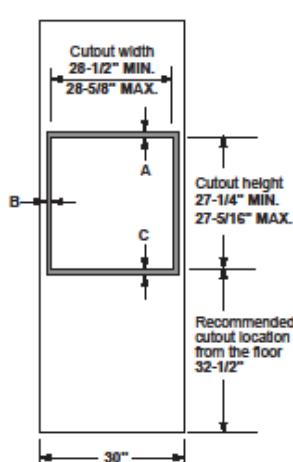
**NOTE:** Wall coverings, countertops and cabinets surrounding the wall oven must be able to withstand a temperature of up to 200°F (94°C).

**NOTE:** If the cabinet in which the wall oven is installed does not have a solid bottom, two braces or runners must be installed to support the weight of the oven. The runners and braces must support up to 220 lbs (99 kg).

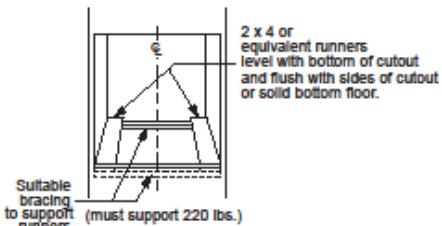
**NOTE:** Door handle protrudes 3" from door face. Cabinets and drawers on adjacent 45° and 90° walls should be placed to avoid interference with the handle.

**ATTENTION INSTALLER:** Electric wall ovens are NOT approved for installation with a plug and receptacle. They must be hard wired into an approved junction box.

**IMPORTANT:** Before installing, consult installation instructions packed with product for current dimensional data.



Dimension and installation information are shown in inches.



KW RATING	
240V	4.2
208V	3.2
BREAKER SIZE	
240V	20 Amps
208V	20 Amps

PTS9000

Cabinet	30"
A - Overlap of oven at top of cutout	1"
B - Overlap of oven other side of edge of cutout	3/4"
C - Overlap of oven at bottom of cutout	1-1/4"
Oven	
D - Install depth	23-1/2"
E - Overall height with trim	28-5/8"
F - Overall width	28-3/4"



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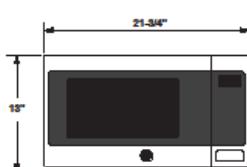
Specification Revised 5/20

# PEB9159SJSS

## GE Profile™ Series 1.5 Cu. Ft. Countertop Convection/Microwave Oven

### DIMENSIONS AND INSTALLATION INFORMATION (IN INCHES)

EXTERIOR DIMENSIONS (IN INCHES)	
Height	13"
Width	21-3/4"
Depth	16"
Depth including bumpout	20"
Depth from back of case to front legs	13"



### OPTIONAL ACCESSORY TRIM KITS FOR GE MICROWAVE OVENS (AVAILABLE AT ADDITIONAL COST)

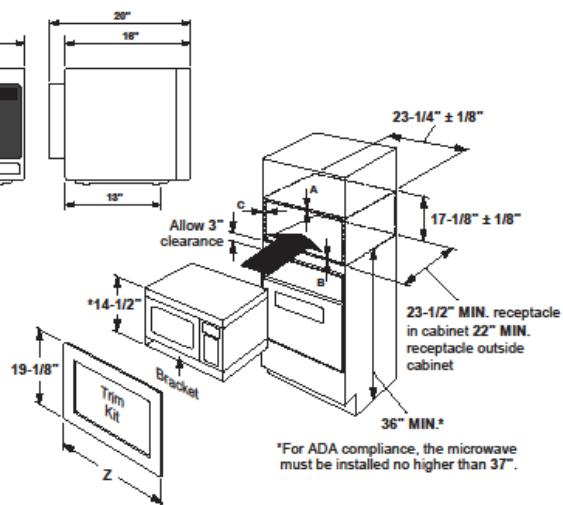
For a custom built-in appearance, these kits allow built-in installation of the countertop microwave oven into a wall or cabinet alone and are UL approved for installation over a GE single electric wall oven. These kits should not be installed over a gas wall oven.

ACCESSORY TRIM KITS	"Z"	MAX HEIGHT	TRIM KITS
30" Deluxe	29-3/4"	19-1/8"	JX9158SJ
27" Deluxe	26-7/8"	19-1/8"	JX9152SJ

**NOTE:** 120V, 60-cycle, grounded power receptacle location optional on back within cabinet opening.

**INSTALLATION INFORMATION:** This information is not intended to be used for installing unit described. Before installing, consult installation instructions packed with product/kit for current dimensional data.

\*Height of product when installed with kit rail and bottom duct: 14-1/2"



\*For ADA compliance, the microwave must be installed no higher than 37".

CABINET OVERLAP REQUIREMENTS		30"	27"
A - Overlap of trim kit over top of cabinet		1"	1"
B - Overlap of trim kit over bottom of cabinet		1"	1"
C - Overlap of trim kit over sides of cabinet		3-5/16"	1-7/8"

**NOTE:** Allow an additional inch of clearance beyond trim kit frame on all sides.



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Specification Revised 8/16

# 30" Undercabinet Hood

300 Series – Stainless Steel DUH30152UC



**DUH30152UC**  
Stainless Steel

**Quickly and quietly clears the air of smoke and odors.**

## Features & Benefits

Allows you to adjust the performance of your hood to match the type of cooking.

Efficiently filters grease and other solid particles out of the extracted air.

Incandescent lighting illuminates the cooking area efficiently.

General Properties	
Operating mode	Convertible: ducted / recirculating
Maximum CFM	280 CFM
Number of speed settings	3-stage
Motor location	Integrated motor in hood body
Number of lights	2
Bulb type	Incandescent
Total power of the lamps (W)	80 W
Damper included	Yes
Grease filter material	Aluminum
Grease filter type	Multilayer cassette
Technical Details	
Volts (V)	120 V
Frequency (Hz)	60 Hz
Plug type	No plug

Dimensions & Weight	
Overall appliance dimensions (width of canopy included) (HxWxD) (in.)	5" x 30" x 20"
Required distance above cooktop/range cooking surface	30" Electric / 30" Gas
Diameter of air duct (in.) top	7"
Diameter of air duct (in.) back	3 1/4" x 10" Rectangular
Net weight (lbs)	42 lbs
Accessories—Optional	
Replacement charcoal filter	DHZ3002UC



**Accessories:** To purchase Bosch accessories, cleaners & parts please visit [www.bosch-home.com/us/store](http://www.bosch-home.com/us/store) or call 1-800-944-2904 (Mon to Fri 5 am to 6 pm PST, Sat 6 am to 3 pm PST).

**Notes:** All height, width and depth dimensions are shown in inches. BSH reserves the absolute and unrestricted right to change product materials and specifications, at any time, without notice. Consult the product's Installation Instructions for final dimensional data and other details prior to making cutout.

**Warranties:** Please see Use & Care manual or Bosch website for statement of limited warranty.

For more information on our entire line of products, go to [www.bosch-home.com/us](http://www.bosch-home.com/us) or call 1-800-944-2904

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07/18

## **5 Spec Sheets for Furniture Pieces: (With notes about Accessibility choices)**

### **1. Master Bedroom Bed**

- **Contrasting color around the edge for easy visibility**
- **Tufted/ fabric so wouldn't hurt if bumped into**



***W526K-HF - Barrett (King Bed)***



As Shown: Fabric: Novum Dove. Nail Trim: Optional" #9 Black Silver Nails Outside Edge Of Headboard, Footboard and Rails. Finish: Supreme Walnut."Optional charges may apply.

### ***PRODUCT SUMMARY***

Collection: Michael Weiss  
 Bed Size: KING BED  
 Features: #52 Nails Not Available.  
 Shipping Speed: Approximately 6 weeks depending on fabric availability

### ***DIMENSIONS (inches)***

Overall: W 86 D 90 H 62.5  
 Inside: W 78 D 81.5  
 Headboard: H 62.5  
 Footboard: H 18.5  
 Side Rails: W 11.5 L 77.5  
 Top of Side Rail to Floor: H 18.5  
 Bottom of Side Rail to Floor: H 8.5  
 Top of Support Slat to Floor: H 7.5

### ***WOOD***

Wood Species: Maple  
 Finish Options:
 

- Stain, Paint, Metallic Paint
- Artisan, MIY
- Premium Leaf

### ***NAIL TRIM***

Nails: Optional with Charge  
 Placement: #9 or #54 only-Outside Edge & Inside Edge of Headboard, Footboard & Side Rails  
 Nail Options:
 

- #9, #52, #54
- Premium

## 2. Sofa for Living Room

- Contrasting welt for easy visibility



**641-1S - Barkley (Sofa)**



As Shown: Fabric: Taschen Rawhide (no longer available); contrast welt in Novum Merigold (no longer available); throw pillows in Palatine Sunflower (no longer available). Chow Leg. Finish: Oiled Java.

### **PRODUCT SUMMARY**

Collection: American Bungalow  
 Features: Leg / Skirt Options: Block / Short Block / Metro / Short Metro / Mid Metro / Bun / Chow / Tapered / Turned / Edwardian / Cottage / 8" Dressmaker Skirt, Overall, Seat and Arm Heights Listed are Based on a 2.75" Leg Option  
 Shipping Speed: Approximately 6 weeks depending on fabric availability

### **DIMENSIONS (inches)**

Overall: W 79 D 37 H 37  
 Inside: W 69 D 22 H 16  
 Arm: H 22  
 Seat: H 21

### **SEAT CUSHIONS**

Construction: 8-Way Hand Tied  
 Quantity & Seam: One Border-Welt  
 Standard Fill: Feather Lux  
 Fill Options: • Majestic, Relaxed Down, Spring Lux  
                   • Bliss Spring Down, Bliss Down

### **BACK PILLOWS**

Quantity and Seam: Two Border-Welt  
 Standard Fill: Feather Lux  
 Fill Options: • Majestic Fiber  
                   • Blend Down, Bliss Comfort

3. Side Chair for Living Room- Customizable (Choose sofa color)

- Curved back so wouldn't hurt if hit the back\*



*V122-CH - Chloe (Chair)*



As Shown: V122-CH. Fabric: Village Thunder. Finish: Moonstruck.

**PRODUCT SUMMARY**

Collection: Ease Custom  
 Shipping Speed: Approximately 6 weeks depending on fabric availability

**DIMENSIONS (inches)**

Overall: W 31.5 D 32 H 35  
 Inside: W 23 D 19.5 H 16.5  
 Arm: H 19  
 Seat: H 18.5

**SEAT CUSHIONS**

Quantity & Seam: One Border-Plain Seam  
 Standard Fill: Feather Lux  
 Fill Options:
 

- Majestic, Relaxed Down
- Bliss Spring Down, Bliss Down, Spring Lux

**BACK PILLOWS**

Quantity and Seam: One Tight Button Back  
 Standard Fill: Poly Dacron

**THROW PILLOWS**

Quantity and Seam: One 9"x14" Kidney (square corner plain stitch)  
 Standard Fill: 95/5 Down  
 Options:
 

- Majestic

**4. Dining Table**

- Legs more centered and end seats would be easily accessible

# MADISON TRESTLE DINING TABLE

By Riverside Furniture



## General Information



- Constructed of hardwood solid and Pecan veneer  
" x 42" top extends to 100" x 42" with one 24" leaf inserted

## FINISH DETAILS



Caramel

## ADDITIONAL INFORMATION

Trestle Dining Table  
76.00"W X 42.00"D X 30.00"H  
Model #76050 271 lbs



**5. Dining Chairs**

- Outlined with contrasting wood for easy visibility
- End chairs have arm support for stability, or could be substituted with wheelchair on the end

## Design House Luxury Living Dining End Chair



Hickory White Arm Chair in  
Sonoma Finish w/Grey Linen  
Fabric  
W23 1/2 D19 H34 in. AH: 25 in.  
SH: 19 in.  
Item #17281

## Design House Luxury Living Dining Side Chair

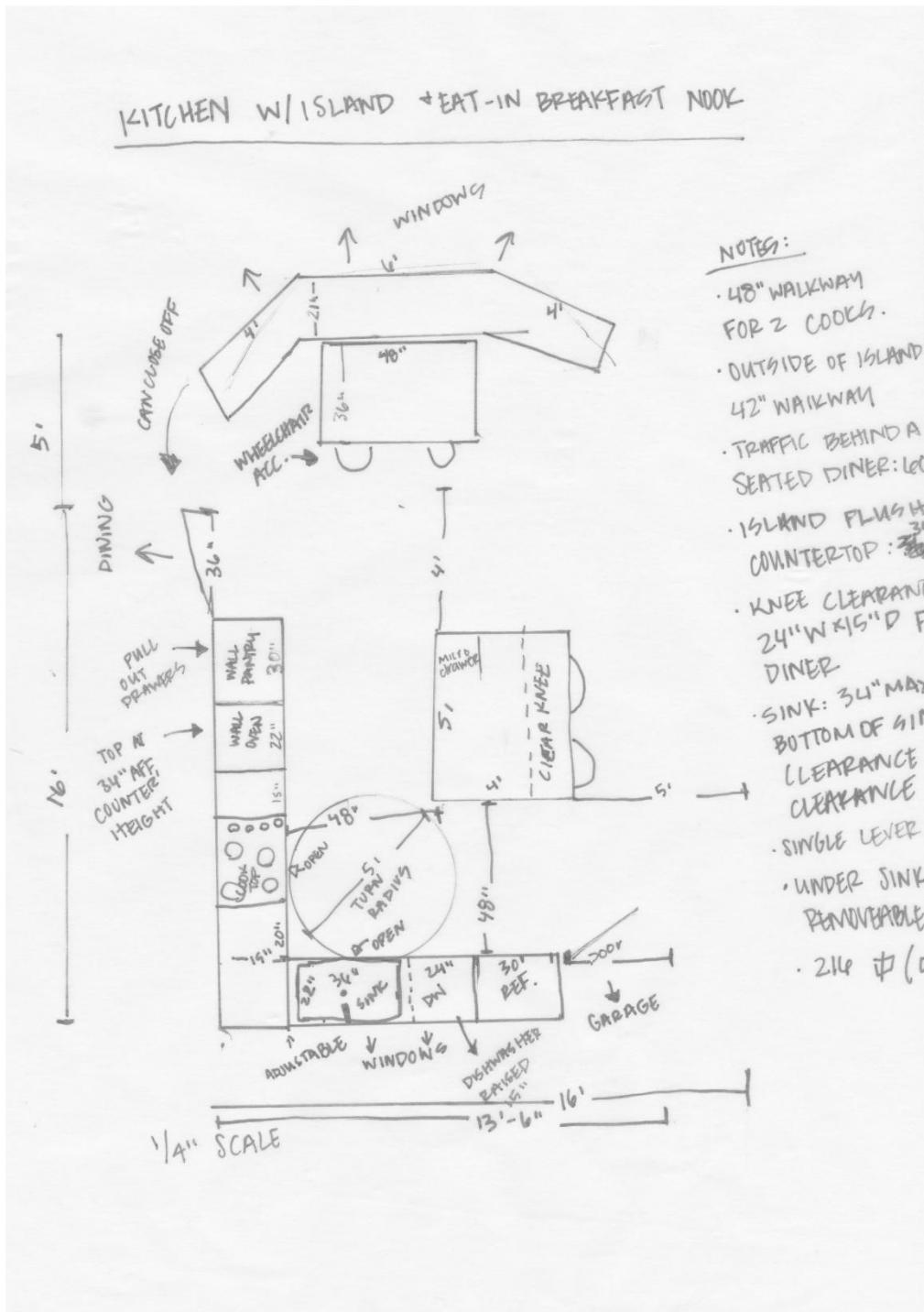


Hickory White Side Chair in  
Sonoma Finish w/Grey Linen  
Fabric  
W20 1/2 D26 H38 in. SH: 19 in.  
Item #17280

**Process Papers:** (Shown below)

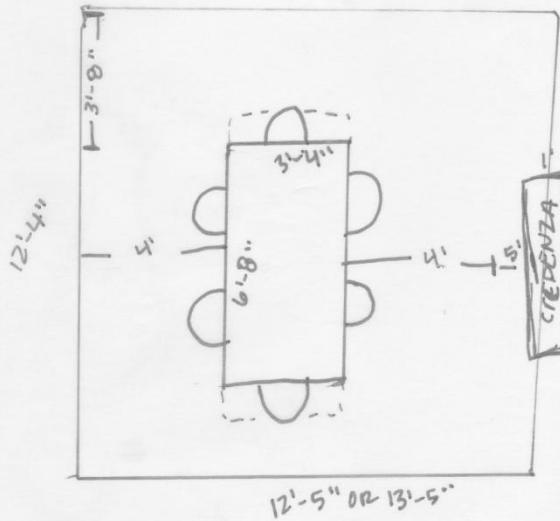
- Prototypicals
- Prototypicals- Revised
- Relationship Diagrams
- Criteria Matrix
- Bubble Diagrams
- Block Diagrams
- Furniture Plan

## **PROTOTYPICALS:**



## DINING ROOM

1/4" SCALE

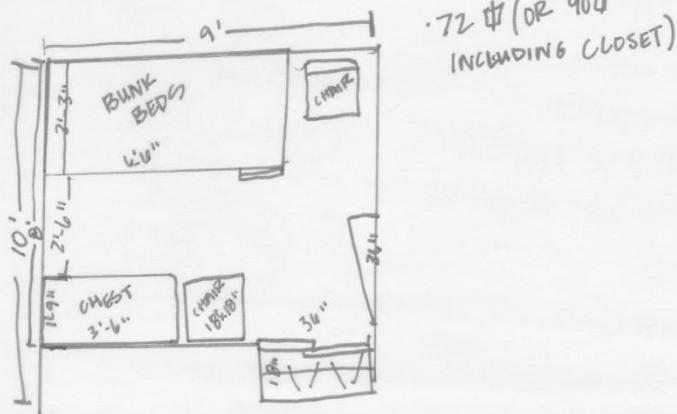


## NOTES:

- 38" FOR ACCESS!  
PASSAGE BEHIND  
CHAIRS
- OPTION FOR 4' TO  
EAST WALL, OR 5'  
FOR FULL PASS THROUGH  
INTO ANOTHER ROOM.
- DOOR(S) CAN BE PLACED  
ON NORTH OR EAST OR  
WEST WALL, OR OPEN  
WALLS.
- 155  $\square$  TOTAL (OR 167  $\square$ )
- MULTIPLE WHEELCHAIR  
ACC. CHAIRS.
- EXPANDABLE TABLE

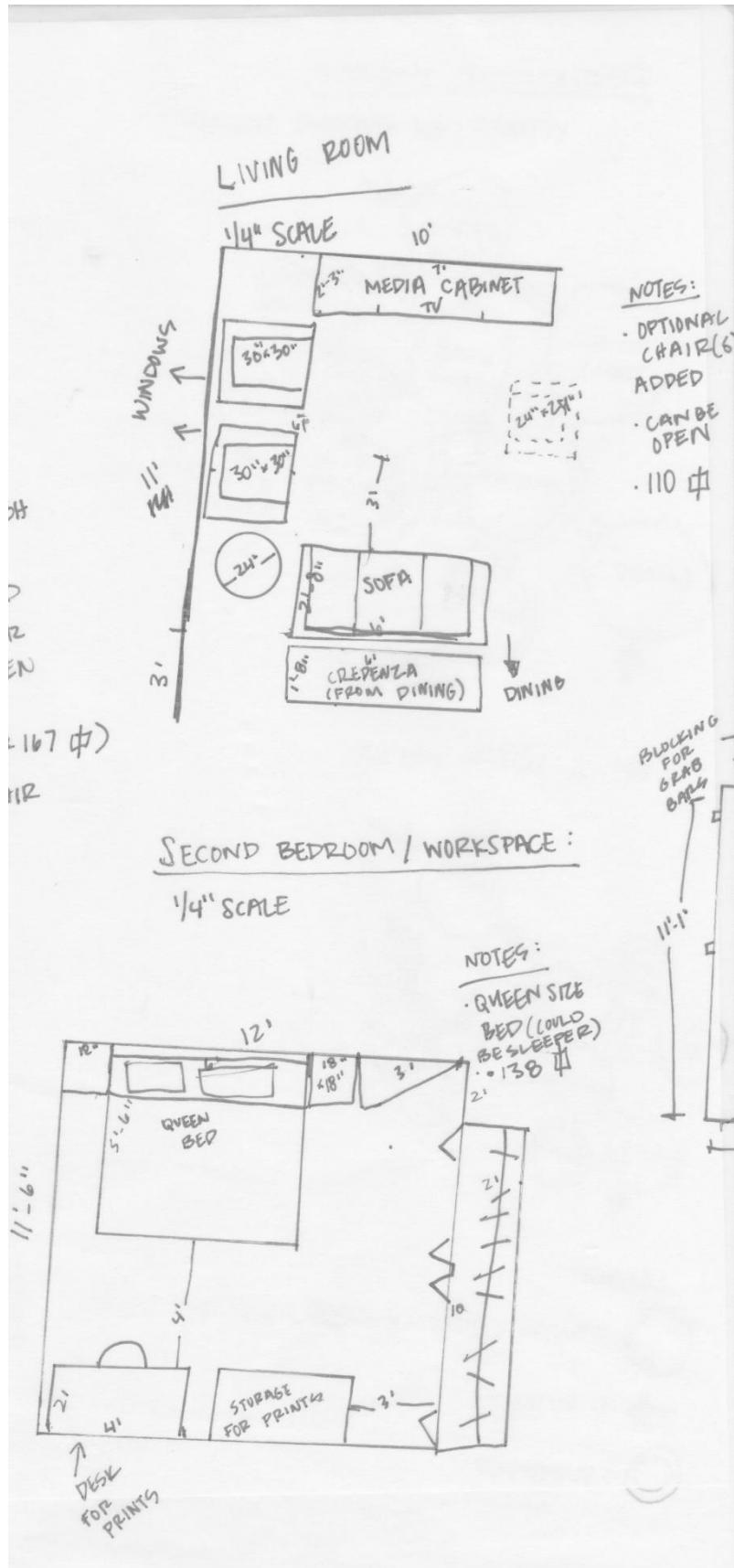
## THIRD BEDROOM-KIDS

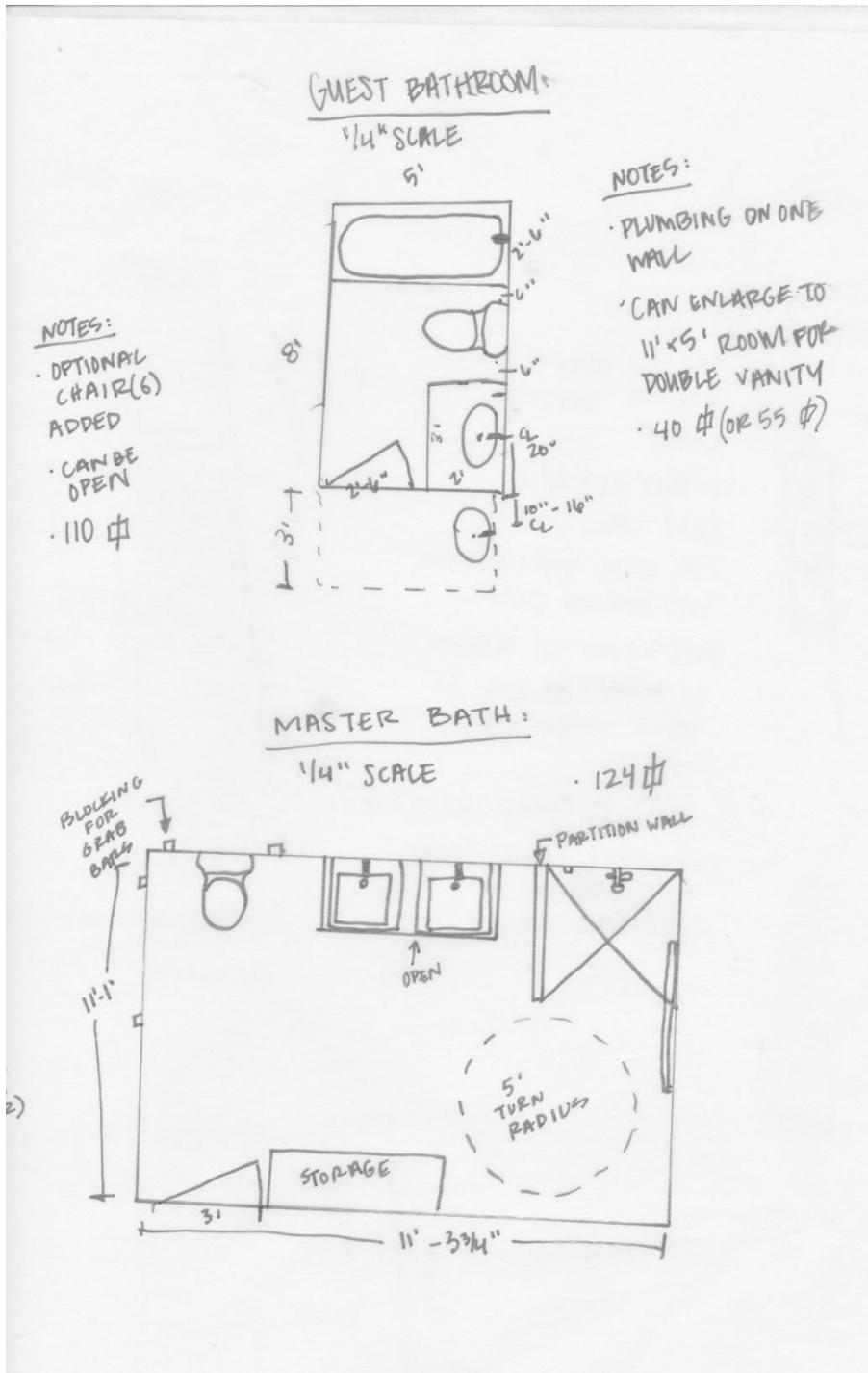
1/4" SCALE

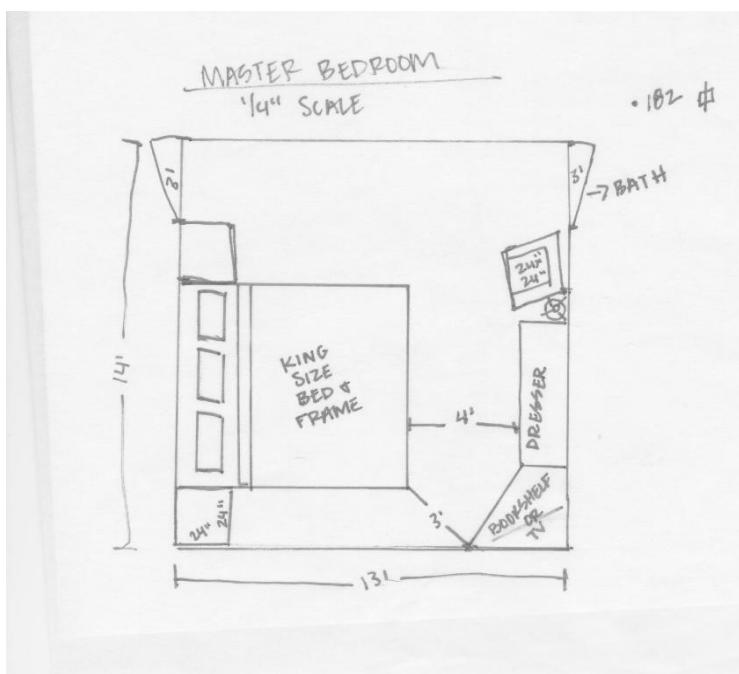
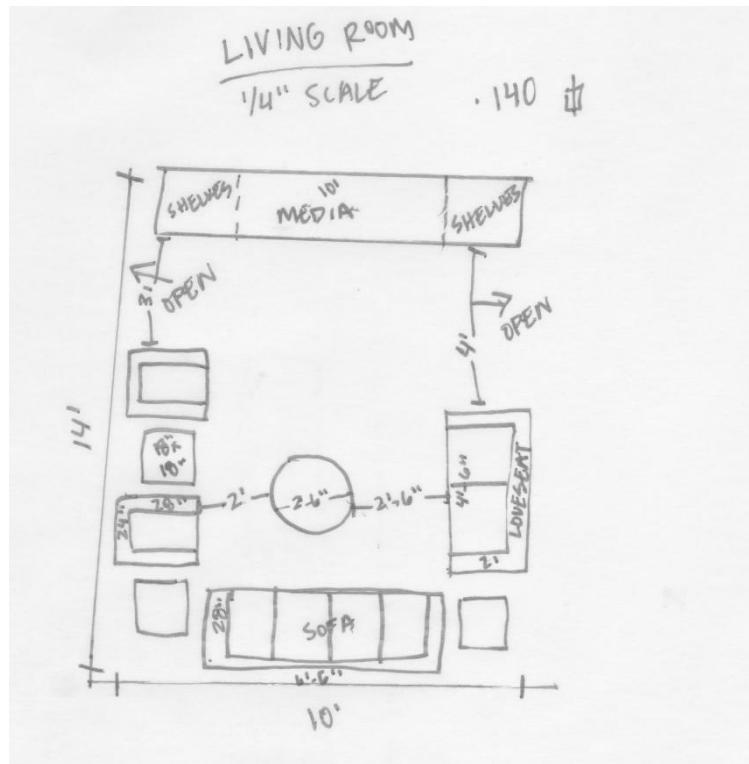


• 72  $\square$  (OR 90  $\square$ )  
INCLUDING CLOSET

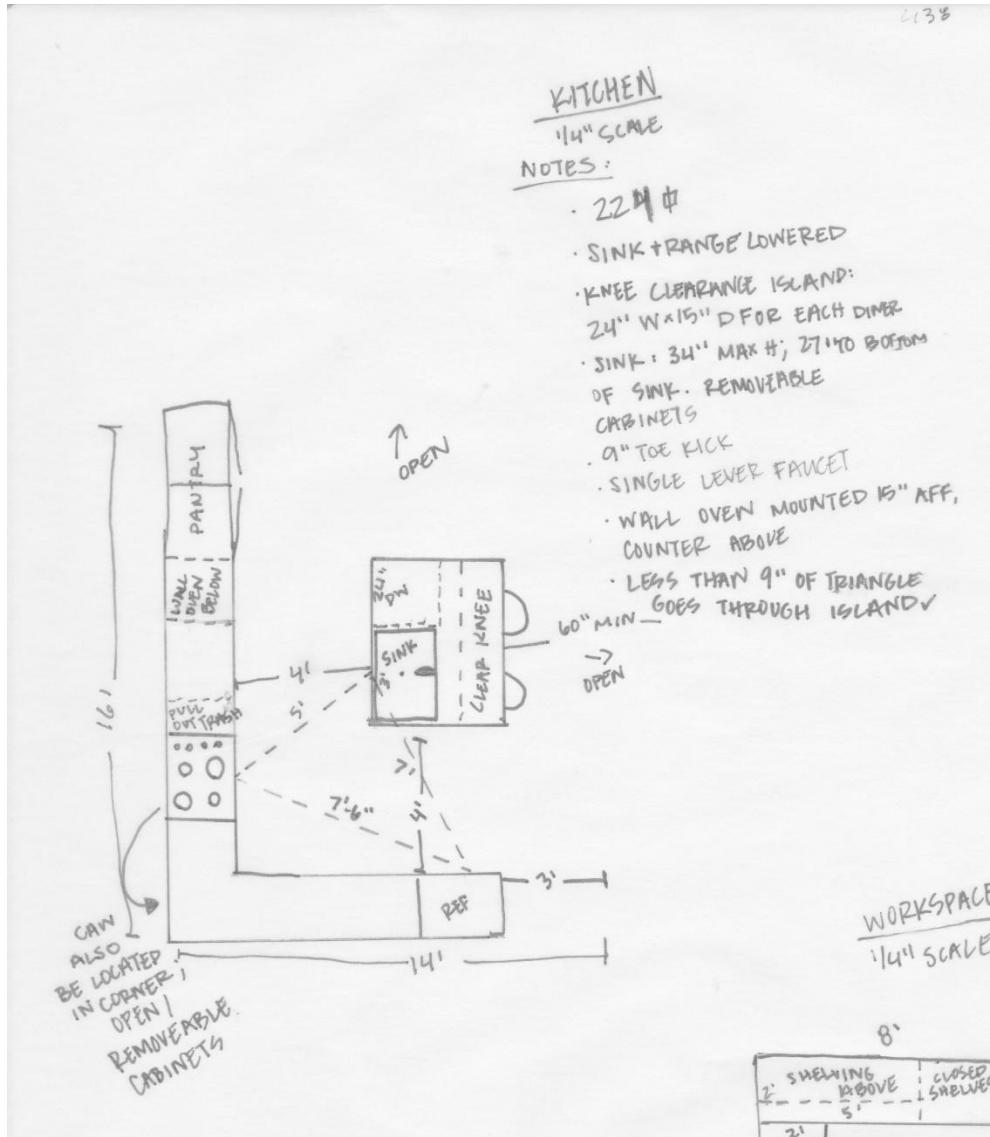


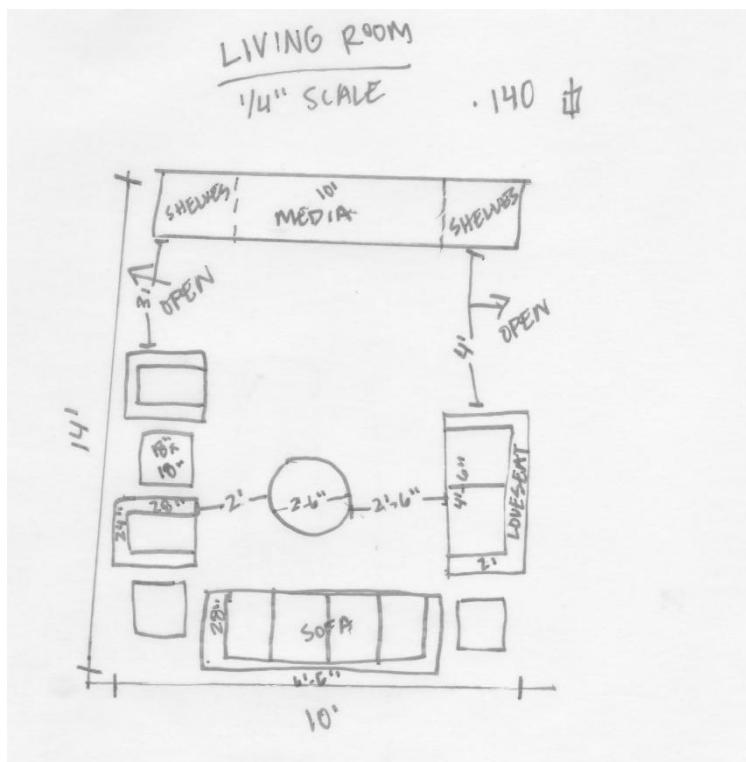
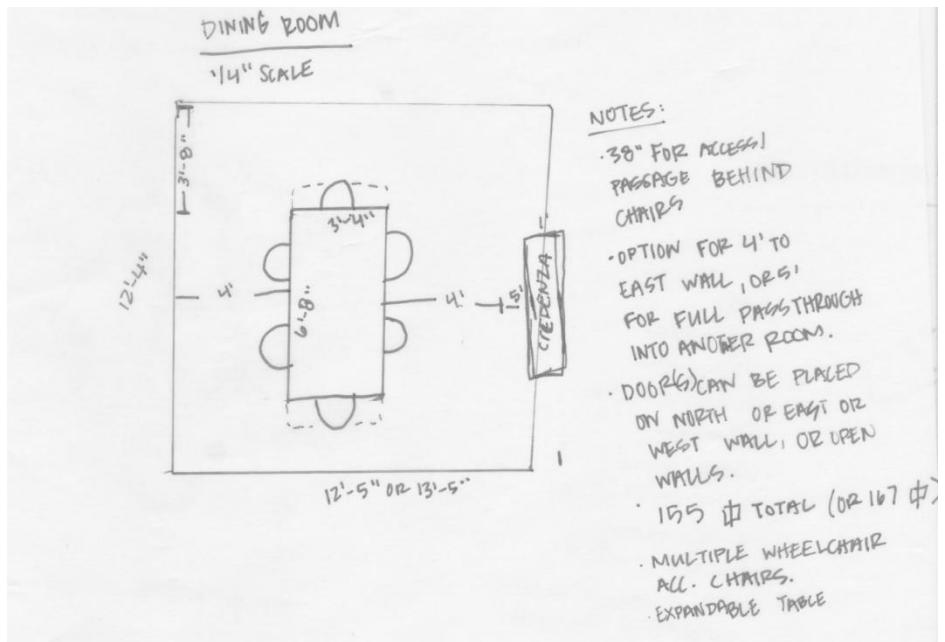


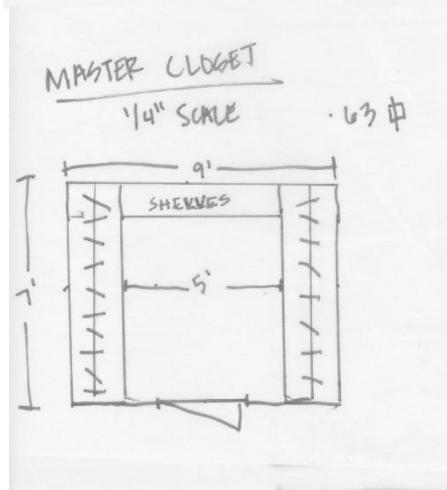
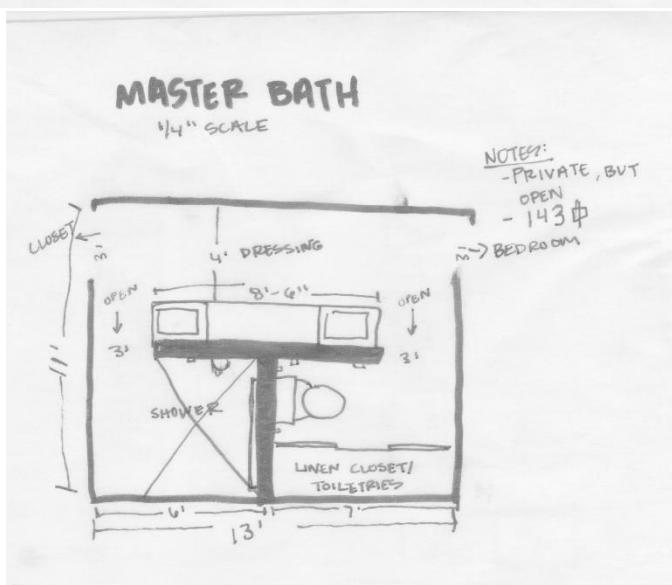
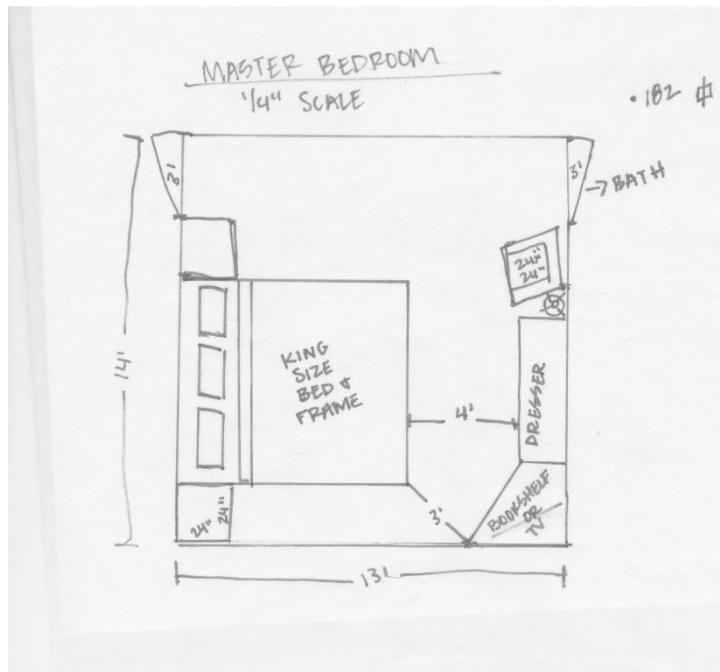


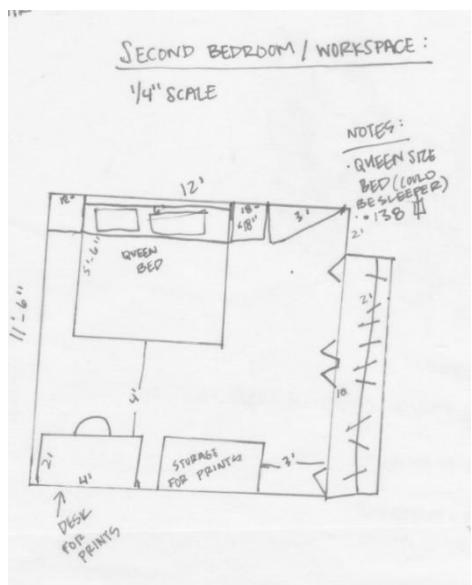
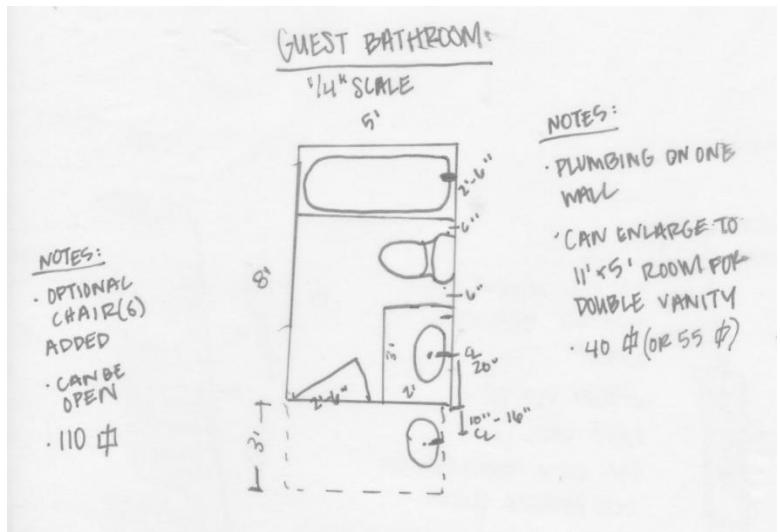


PROTOTYPICALS (Revised):

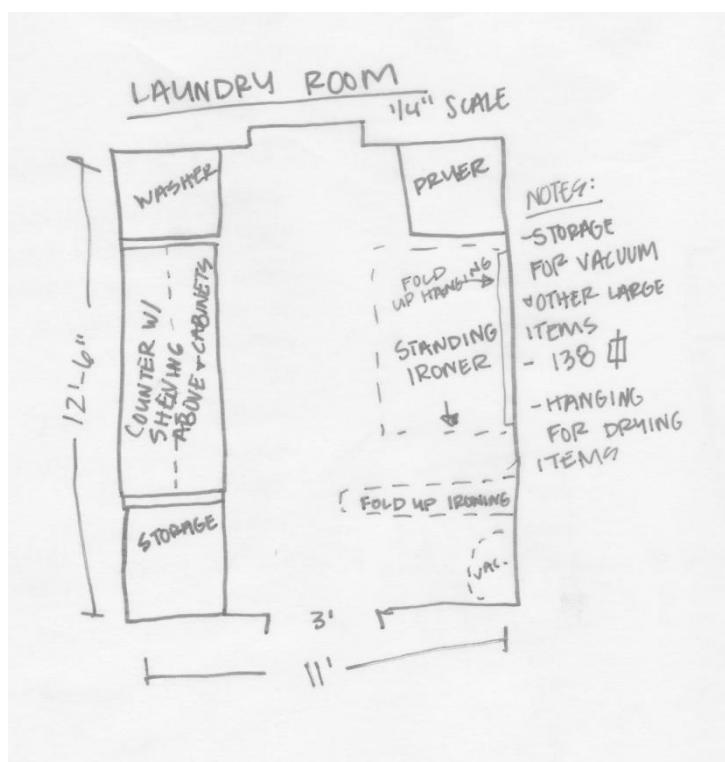
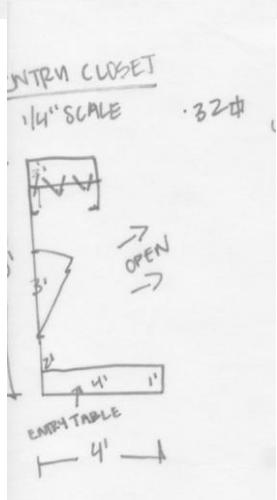
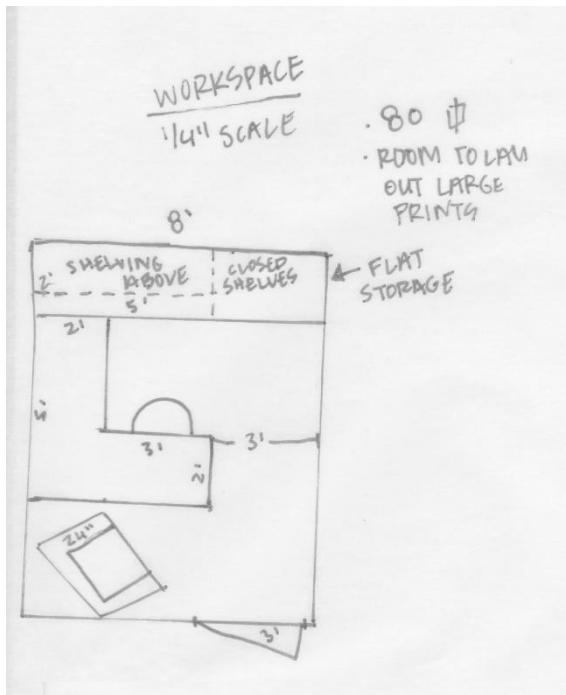








**Revised note: Get rid of storage for photos, and include dresser instead.**



**CRITERIA MATRIX:****CRITERIA MATRIX**

Key	Space	Sq. Footage	Adjacencies	Guest Access	Visual Privacy	Acoustical Privacy	Seating Requirements	Lighting Needs	Plumbing	Special Equipment
1	Entry/ Foyer	32	2,3	Y						
2	Living Room	140	1,3	Y			6 to 8	Y		
3	Dining Room	155	1,4	Y			6 to 8	Y		
4	Kitchen	224	2,3	Y				Y	Y	
5	Master Bedroom	182	6		Y	Y		Y		
6	Master Bathroom	143	5		Y	Y			Y	
7	Guest Bathroom	40	8,9	Y					Y	
8	2nd Bedroom	138	7,9	Y		Y		Y		
9	3rd Bedroom- Kids	72	7,8	Y		Y		Y		
10	Laundry Room	138			Y					
11	Garage	n/a	4		Y				Y	
12	Workspace	80								
13	Master Closet	63	5,6		Y					

Total Sq. Footage used: 1,407

25% x 1407

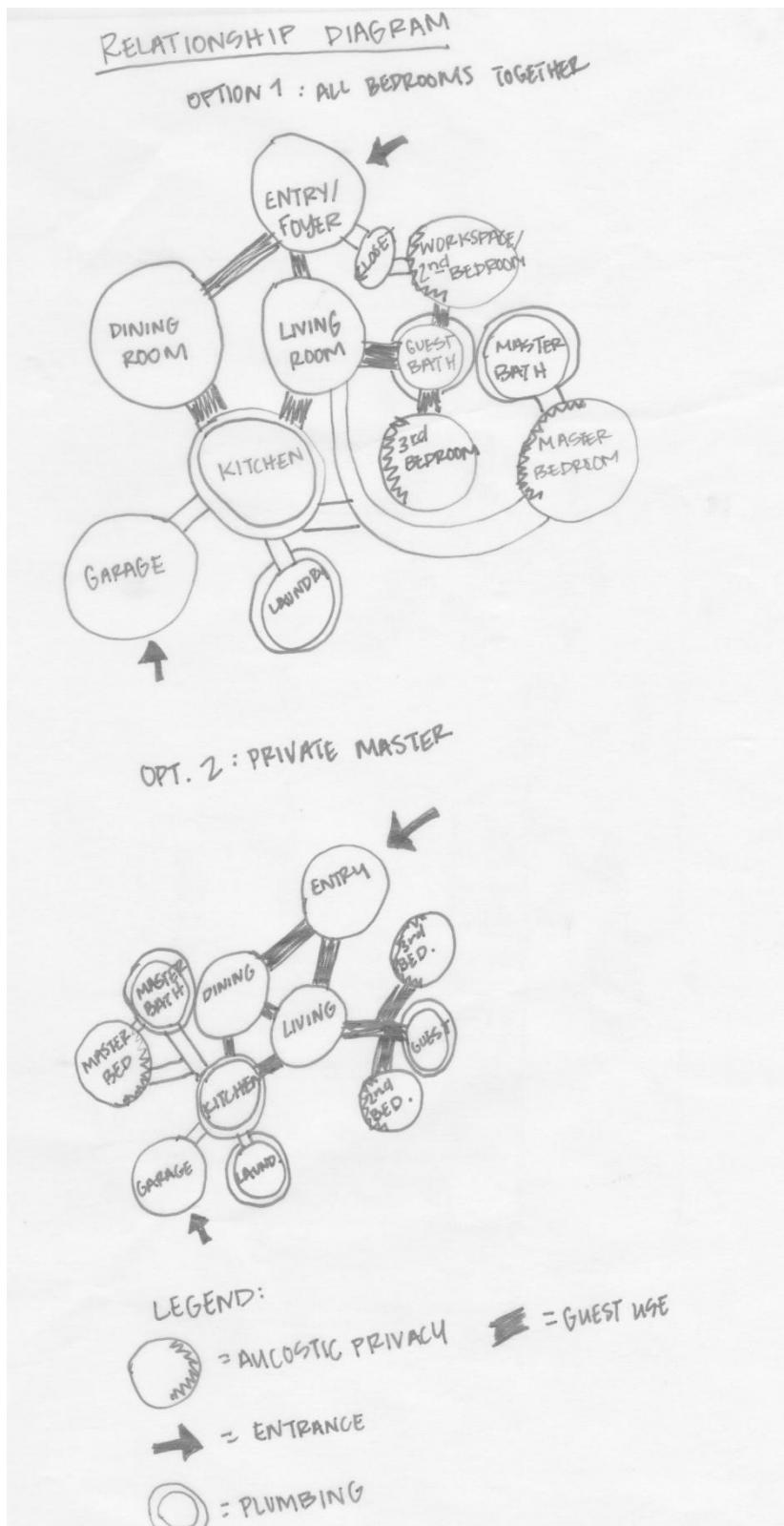
Circulation: = 351

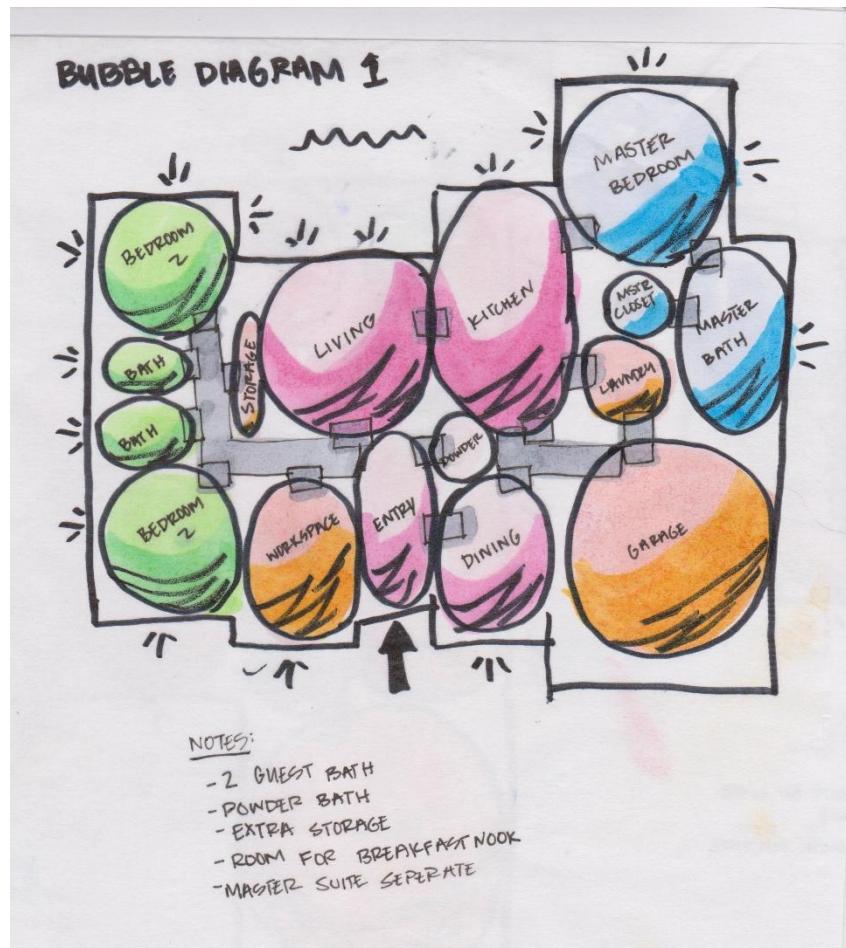
**Total Square Footage:** 1758**NOTES:****Legend:** Y=Yes N=No

"Lighting needs" Refers to natural lighting priority

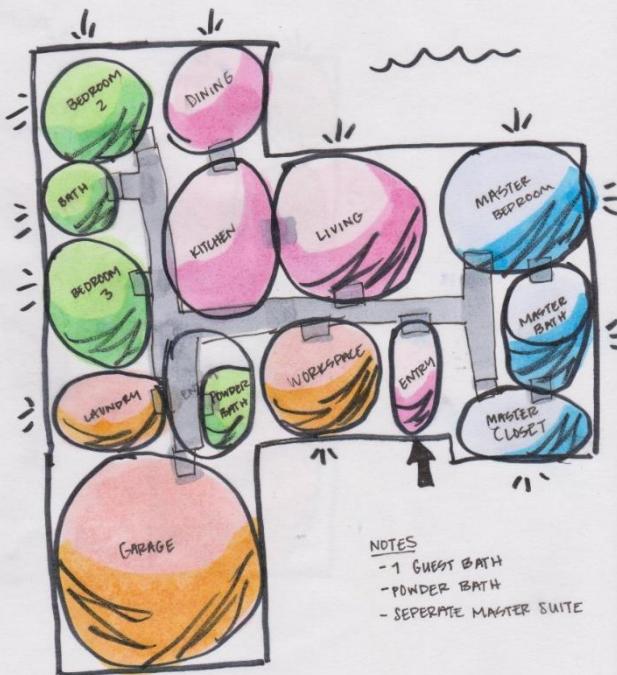
With extra space, can add powder bath, enlarge master for bigger seating area.

## **RELATIONSHIP DIAGRAM:**

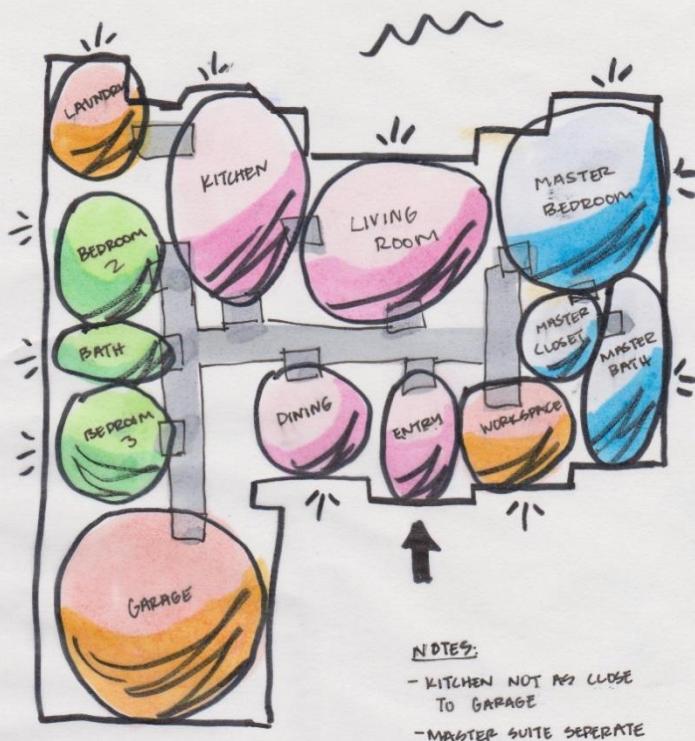


**BUBBLE DIAGRAMS:**

BUBBLE DIAGRAM 2

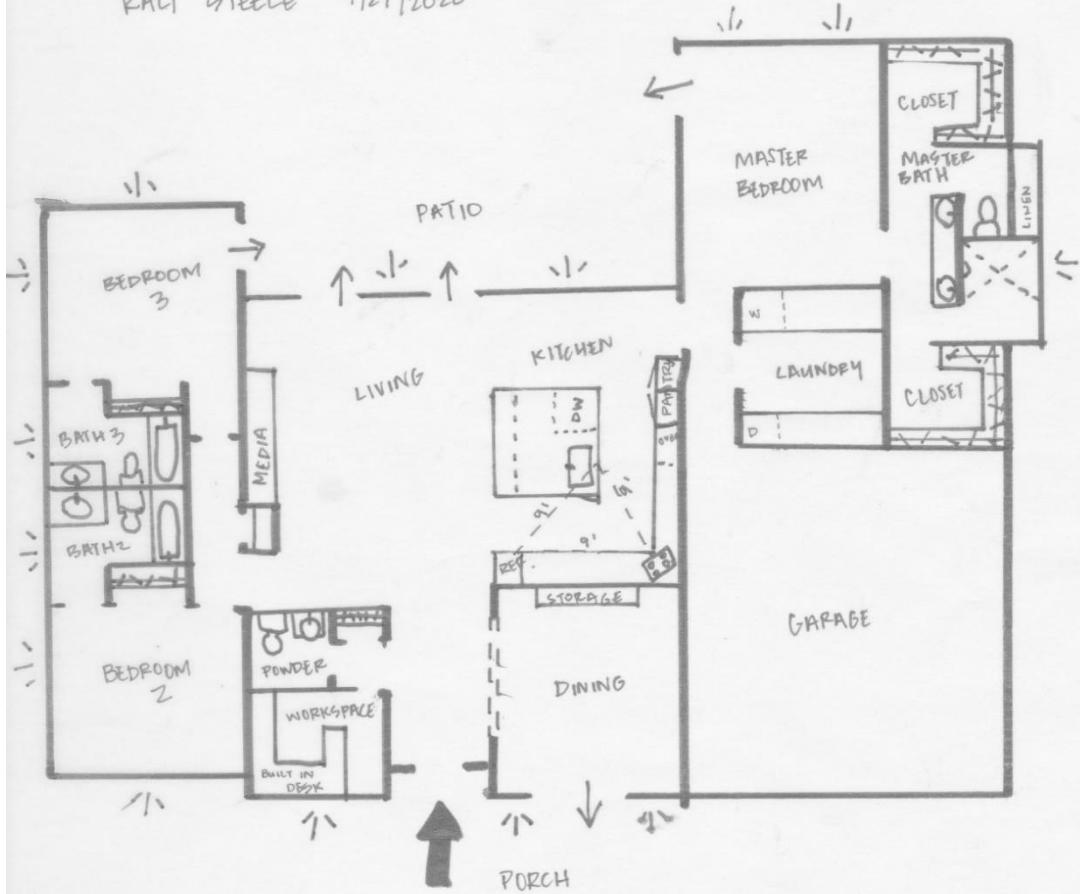


BUBBLE DIAGRAM 3



**BLOCK DIAGRAMS:****BLOCK DIAGRAM 1**

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NOTES:

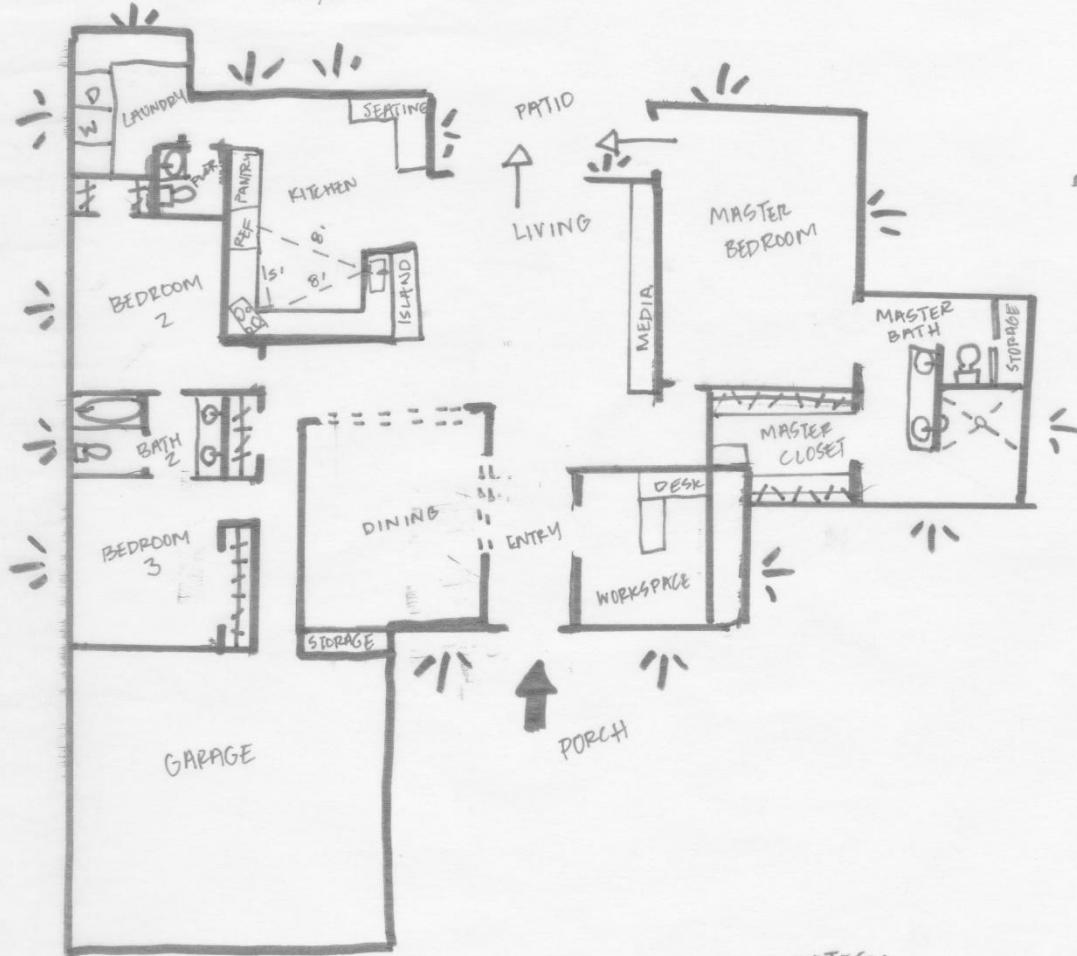
- BUILT IN COMPONENTS  
PLUMBING FIXTURES  
SHOWN FOR REFERENCE.

- SQ.FT (NOT INCLUDING  
GARAGE: 2,425  $\square$

- ROUGHLY 3/32 SCALE

# BLOCK DIAGRAM 2

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## LEGEND:



MAIN ENTRANCE



LIGHT (WINDOW)



ADDITIONAL ENTR/EXIT

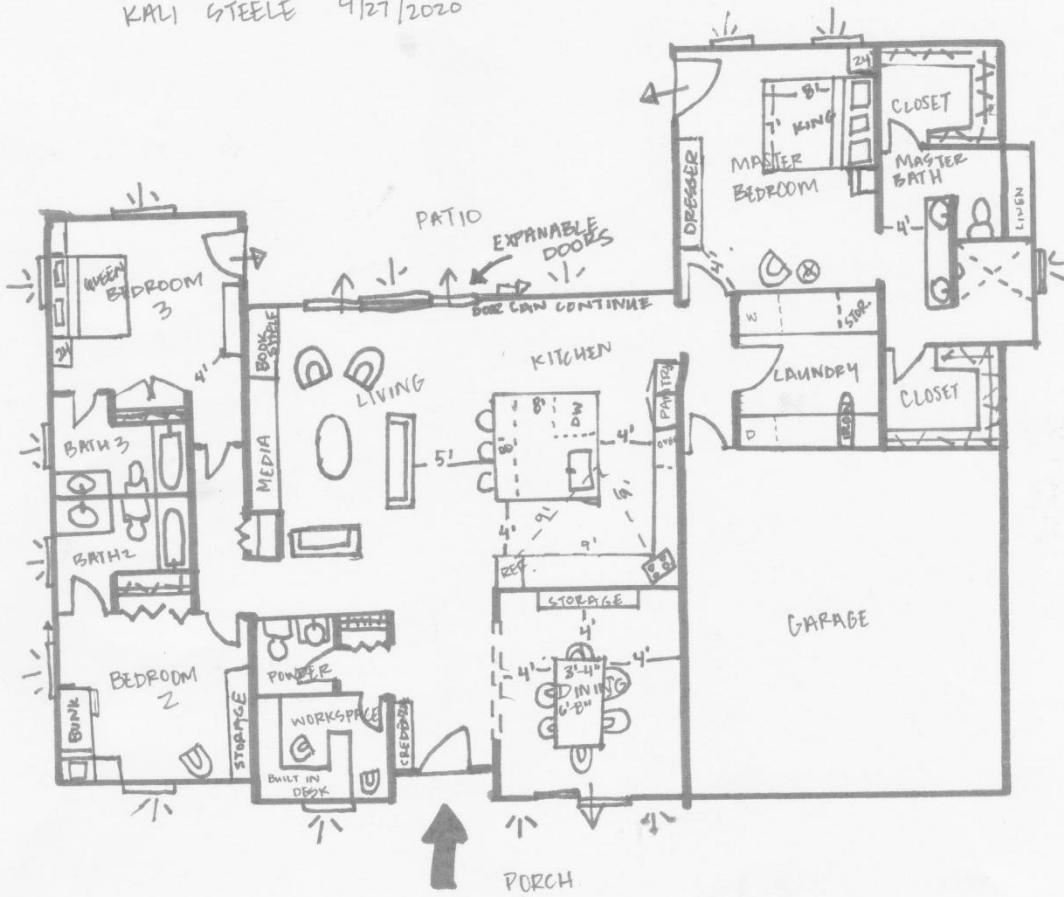


CASED OPENING



CLOSET

## **FURNITURE PLAN:**



## NOTES:

- BUILT IN COMPONENTS  
PLUMBING FIXTURES  
SHOWN FOR REFERENCE
- SQ.FT (NOT INCLUDING  
GARAGE): 2,425 
- ROUGHLY 3/32 SCALE
- ✓ - DESIGNED ACCORDING TO  
PROTOTYPICALS

## Scaled Model- Photos

